

What is claimed is:

Sub
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1. A synthetic turf comprising:
a sub-surface layer;
a porous aggregate layer on said sub-surface layer;
a geotextile membrane on said aggregate layer;
a substantially non-compactable layer comprising sand and resilient material on said geotextile membrane;
a pile fabric on said substantially non-compactable layer, said pile fabric comprising a plurality of pile elements secured to a backing; and
an infill for said pile fabric, said infill consisting essentially of resilient particles.

2. The synthetic turf of claim 1, wherein said resilient material in said substantially non-compactable is rubber embedded in said sand.

2/. The synthetic turf of claim 1, wherein said resilient particles comprise styrene-butadiene.

3/. The synthetic turf of claim 3/, wherein said resilient particles further comprise high density rubber.

4/. The synthetic turf of claim 1, wherein said pile elements comprise polyethylene.

6. The synthetic turf of claim 1, wherein said backing comprises a non-woven material.

7. The synthetic turf of claim 6, wherein said non-woven material is secured to a woven material having a layer of felt thereon facing said non-woven material.

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~~7~~8. The synthetic turf of claim 1, further comprising drainage means below said pile fabric for directing water away from said turf.

~~8~~9. The synthetic turf of claim ~~8~~⁷, wherein said drainage means comprises a plurality of perforated interconnected pipes.

~~9~~10. The synthetic turf of claim ~~9~~⁸, wherein said drainage means further comprises a plurality of holes in said backing.

11. A method of forming a synthetic turf on a sub-surface base, comprising:

forming a porous aggregate layer on said sub-surface base;
providing a geotextile membrane on said aggregate layer;
forming a substantially non-compactable layer comprising sand and resilient material on said geotextile membrane;

providing a pile fabric on said substantially non-compactable layer, said pile fabric comprising a plurality of pile elements secured to a backing and an infill consisting essentially of resilient particles.

~~16~~12. The method of claim ~~11~~¹⁵, further comprising providing water drainage by burying a plurality of perforated interconnected pipes below said pile fabric.

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